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Item 8 of the provisional agenda

Regulation No. 14 (Safety-belt anchorages)

Proposal for Supplement 8 to the 07 series of Amendments to Regulation No. 14 (Safety belt anchorages)

Submitted by the expert from France*

The text reproduced below was prepared by the expert from France, on behalf of the informal group on Child Restraints Systems and updates the latest versions of Regulation No 14. The modifications to the current text of the UN Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2016–2017 (ECE/TRANS/254, para. 159 and ECE/TRANS/2016/28/Add.1, cluster 3.1), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



I. Proposal

Text of the Regulation,

Paragraph 2.17., amend to read

"2.17. "ISOFIX position" means a position which allows the installation of:

...

- (f) Or an i-Size child restraint system of **integral class** as defined in Regulation No. 129."

Paragraph 2.29., amend to read:

"2.29. "A *child restraint fixture*" means a fixture according to one of the ~~eight~~ ISOFIX size ~~classes~~ **envelopes** defined in paragraph 4. of Annex 17 – Appendix 2 of Regulation No. 16 and particularly whose dimensions are given from Figure 1 to Figure 78 in the previous mentioned paragraph 4. Those child restraint fixtures (CRF) are used in Regulation No. 16, to check **which** ISOFIX child restraint systems size **envelopes** ~~classes~~ can be accommodated on the vehicle ISOFIX positions. Also one of the CRF, so-called either ISO/F2 ~~(B)~~ or ISO/F2X ~~(B1)~~ which is described in Regulation No. 16 (Annex 17, Appendix 2), is used in this Regulation to check the location and the possibility of access to any ISOFIX anchorages system."

Paragraph 5.2.2.3., amend to read:

"5.2.2.3. An ISOFIX anchorage system, ISOFIX top tether anchorage and vehicle floor contact surface of i-Size seating positions shall be designed for i-Size child restraint system **of integral class** as defined in Regulation No. 129."

Paragraph 5.2.3.3., amend to read:

"5.2.3.3. For any ISOFIX anchorages system installed in the vehicle, it shall be possible to attach either the ISOFIX child restraint fixture "ISO/F2" ~~(B)~~ or "ISO/F2X" ~~(B1)~~ as defined by the vehicle manufacturer, described in Regulation No. 16 (Annex 17, Appendix 2).

i-Size positions shall accommodate ISOFIX child restraint fixtures ~~of size classes~~ "ISO/F2X" ~~(B1)~~, and "ISO/R2" ~~(D)~~ together with the support leg installation assessment volume, as defined in Regulation No. 16 (Annex 17, Appendix 2). **In addition, i-Size positions shall accommodate the child restraint fixture of class ISO/B2, as defined in Regulation No. 16 (Annex 17, Appendix 5).**"

Paragraph 5.2.3.4., amend to read:

"5.2.3.4. ... It shall be possible to install the ISOFIX child restraint fixture under the increased pitch angle. **This paragraph does not apply to child restraint fixtures of size ISO/B2.**"

Paragraph 5.2.4.2., amend to read:

"5.2.4.2. The ISOFIX top tether anchorage zone may be alternatively located with the aid of the Fixture "ISO/F2" ~~(B)~~, as defined in Regulation No. 16 (Annex 17, Appendix 2, Figure 2), in an ISOFIX position equipped with ISOFIX low anchorages as shown in Figure 11 of Annex 9.

...

In the side view, the ISOFIX top tether anchorage shall lie behind the "ISO/F2" ~~(B)~~ fixture rear face.

The intersection between the "ISO/F2" ~~(B)~~ fixture rear face and the horizontal line (Annex 9, Figure 11, reference 3) containing the last rigid point of a hardness greater than 50 Shore A at the top of the seat back defines the reference point 4 (Annex 9, Figure 11) on the centreline of the "ISO/F2" ~~(B)~~ fixture. At this reference point, a maximum angle of 45° above the horizontal line defines the upper limit of the top tether anchorage zone.

...

The origin of the ISOFIX top tether strap (5) is located at the intersection of the "ISO/F2" ~~(B)~~ fixture with a plane 550 mm distant above the "ISO/F2" ~~(B)~~ fixture horizontal face (1) on the "ISO/F2" ~~(B)~~ fixture centreline (6).

Further, the ISOFIX top tether anchorage shall be more than 200 mm but not more than 2000 mm from the origin of the ISOFIX top tether strap on the rear face of the "ISO/F2" ~~(B)~~ fixture, measured along the strap when it is drawn over the seat back to the ISOFIX top tether anchorage."

II. Justification

Two "Booster Seat" fixtures (ISO/B2 and ISO/B3) were added to Regulation No. 16 to coincide with the implementation of Phase 2 of Regulation No. 129. These fixtures were developed within ISO/TC 22/SC 36/WG 2 (Child Restraint Systems) and follow the principle already established in Regulations Nos. 16 and 129 to ensure child restraint to car compatibility. An additional "Reduced-Size Rearward Facing toddler CRS" fixture (ISO/R2x) was added to facilitate compatibility in small cars/seating positions. The ISO/B2 booster seat fixture was added in the i-Size concept. Lateral facing fixtures (ISO/L1 and ISO/L2) have been upgraded.
